Brite Gold™ XH

High gold ceramic alloy

Brite Gold XH offers a wide range of indications and a golden yellow color for an esthetic true-to-nature restoration.

Advantages
- Palladium-, silver- and zinc-free
- No pickling step after oxidation
- High temperature strength
- Compatible with conventional feldspar ceramics
- Certified biocompatibility

Indication
Inlays, onlays, ¾ crowns, PFM crowns, crowns, telescope and conus crowns, posts, short and long-span bridges

Technical Data

<table>
<thead>
<tr>
<th>Color</th>
<th>rich yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>3</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>18.8</td>
</tr>
<tr>
<td>Melting range (°C)</td>
<td>1080 – 1150</td>
</tr>
<tr>
<td>Casting temperature (°C)</td>
<td>1205 – 1265</td>
</tr>
<tr>
<td>CTE 25 – 500 °C</td>
<td>14.4</td>
</tr>
<tr>
<td>CTE 20 – 600 °C</td>
<td>14.7</td>
</tr>
<tr>
<td>Elongation (%)</td>
<td>11.0</td>
</tr>
<tr>
<td>Modulus of elasticity (MPa)</td>
<td>107.000</td>
</tr>
<tr>
<td>Oxide firing °C / min. / vacuum</td>
<td>980 / 5 / vac</td>
</tr>
<tr>
<td>Vickers hardness</td>
<td>180</td>
</tr>
<tr>
<td>0.2 % Proof stress (MPa)</td>
<td>335</td>
</tr>
</tbody>
</table>
Certificate

Test material: High Gold Ceramic alloy

<table>
<thead>
<tr>
<th>Composition in % weight</th>
<th>Au</th>
<th>Pt</th>
<th>Cu</th>
<th>In</th>
<th>Ir</th>
<th>Sn</th>
<th>Mn</th>
<th>Li</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brite Gold™</td>
<td>96.3</td>
<td></td>
<td>2.6</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td></td>
<td>B &lt;1.0, Fe &lt;1.0</td>
</tr>
<tr>
<td>Brite Gold™ XH</td>
<td>88.9</td>
<td></td>
<td>9.0</td>
<td></td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td></td>
<td>Fe &lt;1.0</td>
</tr>
</tbody>
</table>

Manufacturer

Ivoclar Vivadent Inc., 175 Pineview Drive, Amherst, NY 14228, USA

Corrosion resistance

The test was conducted according to the international regulations of ISO 1562 and ISO 6871-1: static immersion test through analytical determination of the metal ion release after a 7-day immersion.

Test results: The metal ion release after 7 days of immersion was not significant.

Testing facility: Louisiana State University, Dr. Sakar

Cytotoxicity

The Agar Diffusion test determines the biological reactivity of cell culture on test material.

Test results: The test material is considered non-cytotoxic and meets the requirements of the Agar Diffusion test according to ISO 10993-5.

Mutagenicity

An Ames assay was conducted to determine any possible cancer potential.

Test results: No mutagenicity potential was found to exist in these alloys.

Kligman Maximization

This test evaluated the allergenic potential and/or sensitizing capacity of these alloys.

Test results: Based on the standards set by the study protocol, these alloys exhibited no reaction to the challenge (0% sensitization).

Sensitivity of oral mucosa

Test to determine the contact sensitivity of these alloys at the buccal oral mucosa.

Test results: No reactions were noted in conjunction with these alloys.

Testing facility: Toxikon Corporation, 15 Wiggins Avenue, Bedford, Massachusetts

Amherst, May 2010

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EC Representative
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